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APPLICATION NO.	FII	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/005,827	327 11/08/2001		Woo Sik Yoo	M-11914 US	3118	
24251	7590	10/24/2002				
SKJERVEN		LL LLP	EXAMINER			
25 METRO I SUITE 700		_	COTHORN, JUDITH A			
SAN JOSE, CA 95110				ART UNIT	PAPER NUMBER	
			2822			
			DATE MAILED: 10/24/2002	DATE MAILED: 10/24/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		1 4 11 41	N. Committee	A1:4/->					
			Application N .		Applicant(s)				
	0	10/005,827	,	YOO, WOO SIK					
Offic Action	Summary	Examiner	···	Art Unit					
•		Judith A. Co		2822	Idross				
v The MAILING DATE of this communication appears on the cover sheet with the correspondenc address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status									
1) Responsive to communication(s) filed on <u>11/8/01</u> .									
2a) This action is FINA	<b>L</b> . 2b)⊠ Th	nis action is r	non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims  AND Claim(a) 4.43 is/ore pending in the application									
4) Claim(s) 1-12 is/are pending in the application.									
4a) Of the above claim(s) <u>11 and 12</u> is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.									
6) ☐ Claim(s) 1,5-7,9 and 10 is/are rejected.									
7)⊠ Claim(s) <u>2-4 and 8</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.									
Application Papers	Subject to restriction and/o	n cicolion ic	qui omone.						
9) The specification is objected to by the Examiner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copie	2. Certified copies of the priority documents have been received in Application No								
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>									
Attachment(s)									
<ol> <li>Notice of References Cited (P72)</li> <li>Notice of Draftsperson's Paten</li> <li>Information Disclosure Statem</li> </ol>	t Drawing Review (PTO-948)	<b>2</b> .		y (PTO-413) Paper No Patent Application (P					

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### **DETAILED ACTION**

This office action is in response to the filing of the application on 11/08/01.

## Election/Restrictions

# **DETAILED ACTION**

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-10, drawn to a system for wafer processing, classified in class 438, subclass 14.
- II. Claim 11-12, drawn to a method for processing a semiconductor device, classified in class 438, subclass 795.

Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Theodore Lopez on 10/17/02 a provisional election was made without traverse to prosecute the invention of a system for processing a semiconductor device, claims 1-10. Affirmation of this election must be made by applicant in replying to this Office action. Claims 11 and 12 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1, 5, 6, 7, 9, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhao et al. (6,189,482).

Zhao et al. disclose a system comprising a processing chamber (30); and a first plate positioned within said processing chamber and defining a first internal cavity with a baffle for dispersing gas (62) configured to receive a first gas, comprising N<sub>2</sub>, He, H<sub>2</sub>, O<sub>2</sub>, Ar, and gas mixtures containing He, H<sub>2</sub>, O<sub>2</sub>, Ar, and N<sub>2</sub> (column 9, lines 33-49) through a first passage into said first internal cavity at a first temperature and to emit said first gas from said first internal cavity through an outlet portion (40) through a plurality of holes (42) at a second temperature (column 10, lines 49-65).

### Allowable Subject Matter

Claims 2-4, and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additionally cited art of record disclose a system for processing a semiconductor device.

Milone (4,961,373) discloses a heat treatment system.

Suzuki (6,393,730) discloses a drier assembly.

Sandhu (6,232,580) discloses an apparatus for uniform gas and radiant heat dispersion for solid state fabrication processes.

Takagi (6,159,873) discloses an apparatus for rapid thermal processing of a semiconductor device.

Knoot (6,187,133) discloses a gas manifold for uniform gas distribution.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judith A. Cothorn whose telephone number is 703-305-4733. The examiner can normally be reached on Mon-Fri, 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 703-308-4905. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

jac

October 21, 2002

Mary Wilczewski Primary Examiner